



TENNESSEE ALTERNATIVE PERFORMANCE BASED ASSESSMENT (APBA)

STUDENT* _____ DOB _____

COURSE _____

TEACHER _____

End of Course score _____ Date End of Course Administered _____

Percent/Adjusted Score Based On Alternative Performance Based Assessment _____

I certify that the above named student ☐ has ☐ has not demonstrated through state allowable evidence the essential knowledge and skills for the above named course.

Teacher signature

Date

**Note – Only students with disabilities on an active IEP are eligible for participation in the APBA*

Biology Rubric

Standard	Biology Essential Knowledge and Skills	Method of Assessment *See Key	0 = No Evidence 1 = limited Evidence 2 = Proficient or Above
			Rating from 0 to 2
1.0 Cells	1. Use appropriate technology to investigate the structures and functions of prokaryotic and eukaryotic cells.		0 1 2
	2. Differentiate among the structure and function of the four major organic macromolecules.		0 1 2
	3. Compare and contrast cell growth and cell reproduction.		0 1 2
	4. Explain how enzymes regulate chemical reactions in the body.		0 1 2
	5. Compare and predict movement of molecules across the cell membrane.		0 1 2
2.0 Interdependence	6. Describe the interrelationship between living things and abiotic factors in the environment.		0 1 2
	7. Describe the impact of altering a particular environmental variable on an eco system.		0 1 2
	8. Describe the events associated with biological succession.		0 1 2
	9. Interpret population data, graphs, and diagrams.		0 1 2
	10. Recognize the interrelationships among science, technology and engineering.		0 1 2
3.0 Flow Of Matter and Energy	11. Analyze energy flow through an ecosystem.		0 1 2
	12. Distinguish between aerobic and anaerobic respiration.		0 1 2
	13. Compare and contrast photosynthesis and cellular respiration.		0 1 2
	14. Describe the biogeochemical cycles and their importance to eco systems.		0 1 2
	15. Interpret a diagram that illustrates the transfer of energy and matter in an eco system.		0 1 2
4.0 Heredity	16. Describe the biological significance of nucleic acids, genes, chromosomes, and proteins and the production of hereditary traits.		0 1 2
	17. Recognize how meiosis and sexual reproduction contribute to genetic variation within a population.		0 1 2
	18. Determine the relationship between mutations and inherited disorders.		0 1 2

Biology Rubric

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			Rating from 0 to 2
	19. Apply mathematical principles to predict the probable outcome of inherited traits.		0 1 2
	20. Assess the scientific and ethical issues associated with gene technologies.		0 1 2
5.0 Biodiversity and Change	21. Compare and contrast the structural, functional, and behavioral adaptations of organisms found in different environments.		0 1 2
	22. Recognize the relationship between form and function in living things.		0 1 2
	23. Analyze the connection among environmental change, genetic variation, natural selection, adaptation, and the emergence of a new species.		0 1 2
	24. Use the fossil record, comparative anatomy, amino acid sequences, and DNA structure to interpret the relationships found in modern classification systems.		0 1 2
	25. Describe the connection between the amount of biodiversity and the ability of a population to survive in a changing environment.		0 1 2
*Method of Assessment Key 1. Use of routine classroom tests and/or assignments 2. Projects 3. Oral response 4. Written response 5. Use of technology 6. Other		TOTAL POINTS _____ Percentage = <u>Total Points</u> _____ % 50	
Statement of Assurance (REQUIRED): As the teacher of record, I attest that I have reviewed and evaluated the evidence that supports each rating and the percent score. _____ Signature _____ Date			